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## Introduction

The following use cases define the main success scenarios for establishing an FPU (fire planning unit). The first use case is a summary of the detail use cases that follow. The use cases assume a single, shared process for all agencies. The Local Agency Fire Planner is the role played by the person responsible for fire planning within a local agency. Since the SuD may be used by multiple agencies, this role may be played by multiple persons within the FPU. Recent analysis has shown that an FPU may be created after all the FMUs are defined. This approach is not fully integrated into the use case model. The maintenance of the SuD standard data is included in this set of business use cases to reflect the importance of defining and maintaining data standards that apply across all Agencies.

## Summary Use Case

### **Use Case No: FPA01-01**

**Use Case Name:** Define Fire Planning Unit

**Brief Description:** *Define the FPU (fire planning unit) that is the subject of the analysis.*

**Primary Actor:** Local Agency Fire Planner

**Preconditions:** None

**Triggers:** An opportunity for interagency landscape fire planning exists due to adjacent fuels present on the landscape.

### **Main Success Scenario:**

1. The Local Agency Program Manager(s) and the Local Agency Fire Planner(s) identify the participants in the fire planning process and the FPU landscape boundaries.
2. Local Agency Fire Planner(s) identify FPU land ownership, including agency units and agency subunits.
3. Local Agency Fire Planner(s) identify fire protection responsibility within the FPU.
4. Local Agency Fire Planner(s) identify the interests of each partner and stakeholder.
5. Local Agency Fire Planner(s) identify goals and objectives and define common planning objectives.
6. Local Agency Fire Planner(s) enter the planning parameters required by SuD, including planning budget year, etc.

**Policy Recommendations:** None

### **Business Rules:**

1. Local Data Administrators will be defined by an interagency team of Local Agency Fire Planners.
2. An Agency should exclude lands from their budget request when there is a contract with another Agency to assume fire protection responsibility.

3. Data about an FPU or FMU is owned by the owner of the land. However, if the land is not owned by an Agency (e.g.) private land, fire related data should be the responsibility of the fire protection agency.
4. If an FMU is solely owned by an Agency, the Local Agency Fire Planner can define FMUs independent of other Agencies within the FPU. If the FMU has shared ownership, then the Local Agency Fire Planner(s) must collaborate.
5. The inflation factor for running the analysis is defined nationally for each year and the SuD will normalize inflation across all the cost data use in the analysis. The user will input cost data for the actual year of occurrence and the SuD will inflate the cost for the outyear budget.
6. The inflation factor is defined as a constant across all FPUs for the budget planning year.

**Assumptions:**

- Local Data Administrators are responsible for defining access to the SuD based on defined data access permissions.

**Issues:**

- What method is used to select fire behavior history to be used in the analysis? Is there a need to establish a range of variability for fire behavior analysis years? If so, would the range be systemwide or vary by region? Should the determination of the range be a rule-based process? Would this range be used to extract fire behavior data?
- Will the SuD use actual fire events or average or representative fire events as part of the analysis?

**Terms:** None

**Metadata:**

Source:	Requirements Analysis
Author:	Core Team
Date Created:	October 8, 2002
Level:	Business - Summary
Related Use Cases:	FPA01-01-01, FPA01-01-02, FPA01-01-03
Status:	Reviewed by Core Team
Last Update Date:	January 22, 2003

## **Detail Use Cases**

### **Use Case No: FPA01-01-01**

**Use Case Name:** Define FPU Boundaries

**Brief Description:** *Define landscape boundaries for the FPU.*

**Primary Actor:** Local Agency Fire Planner(s)

**Preconditions:** Local Agency units agree to work together.

**Triggers:** None identified

#### **Main Success Scenario:**

1. Local Agency Fire Planner(s) review natural and cultural resource data and fire data to identify goals and objectives and define common planning objectives.
2. Local Agency Fire Program Manager(s) and the Local Agency Fire Planner(s) define the FPU based on the interests of each Agency participant in the fire planning process for initial attack.
3. Local Agency Fire Planner(s) determine the boundaries of the FPU.

#### **Alternate Flow of Events:**

- 2a The FPU is comprised of only one Agency unit.
- 2a 1 No other fire planners are involved in defining the FPU.

**Policy Recommendations:** None

#### **Business Rules:**

1. FMUs may be created prior to the determination of a FPU.
2. FPU and FMU boundaries may change over time.
3. FPU boundaries will be scalable to achieve different analyses objectives.
4. An FPU is composed of one or more Agency units or portions of one or more Agency units.
5. An FPU may be composed of one or more FMUs.

#### **Assumptions:**

1. Interagency dispatch units, interagency memorandum of understanding (MOU), and other general cooperative MOUs are a starting point for the definition of planning units.
2. If digital spatial data is available to define the FPU, it can be input to the SuD.
3. If FMUs are defined prior to the definition of the FPU, they can be grouped into FPUs.

**Issues:** None

**Terms:** None

#### **Metadata:**

Source:	Requirements Analysis
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Level:	Business - Detail
Related Use Cases:	FPA01-01
Status:	Reviewed by Core Team
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**Use Case No: FPA01-01-02**

**Use Case Name:** Define Agency Unit and Subunit

**Brief Description:** *Define administrative and legal fire protection responsibility boundaries within the FPU.*

**Primary Actor:** Local Agency Fire Planner

**Preconditions:** The FPU is defined.

**Triggers:** None identified

**Main Success Scenario:**

1. The Local Agency Fire Planner(s) define Agency administrative boundaries, including agency subunits within the FPU.
2. The Local Agency Fire Planner(s) defines legal fire protection responsibility boundaries within the FPU.

**Alternate Flow of Events:**

- 1a Subunits do not exist or are not required for the analysis.
  - 1a 1 The Local Agency Fire Planner does not define agency subunits.
- 1b Administrative boundaries are available as a spatial, digital data layer.
  - 1b 1 The Local Agency Fire Planner imports the digital data.
- 2a Legal fire protection responsibility is available as a spatial, digital layer.
  - 2a 1 The Local Agency Fire Planner imports the digital data.

**Policy Recommendations:** None

**Business Rules:**

1. Fire protection responsibility must be defined distinct from ownership.
2. An Agency unit may be part of one or many FPUs.
3. An Agency unit is administratively defined on the landscape and may include state, tribal or private lands that lie within Agency boundaries.

**Assumptions:**

- If spatial data is available to define the fire protection responsibility, it can be input to the FPA System PM.
- If FMU Agency ownership is defined, it can be grouped into Agency administrative boundaries for the FPU.

**Issues:** None

**Terms:**

- Agency Unit: For example, a forest within USFS.
- Agency Subunit: For example, a ranger district within a forest for USFS.

**Metadata:**

Source:	Requirements Analysis
Author:	Core Team
Date Created:	January 3, 2003
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Related Use Cases:	FPA01-01
Status:	Updated by M. Tae
Last Update Date:	January 17, 2003

**Use Case No: FPA01-01-03**

**Use Case Name:** Maintain FPA Standard data.

**Brief Description:** *Create, update and delete the standard data used by the SuD.*

Primary Actor: National Data Administrator

Preconditions: None identified

Triggers: FPA System Maintenance access is required.

**Main Success Scenario:**

1. The National Data Administrator identifies standard data requirements.
2. The National Data Administrator adds and updates data to static data lookup tables.

**Policy Recommendations:**

- The use of predefined data standards for fire planning preparedness by all agencies.

**Business Rules:**

- The standards for data will be recommended to the IRM Working Team for approval

**Assumptions:**

- The SuD will use the NWCG data standards where it exists, and develop new data standards where no NWCG standard exists. New standards will be forwarded to NWCG for acceptance.

**Issues:** None

**Terms:** None

**Metadata:**

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